

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELKOVA, K.S.

Seats of fatigue and the strength. Sbor.st.Ural.politekh.inst.
no.65:146-149 '58. (MIRA 12:4)
(Strength of materials)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

LIPOV, Pavel Petrovich; TSITSIN, Mikhail Alekseyevich. Prinimaln uchastiye
VESELKOVA, K.S., kand.tekhn.nauk; ABRAMOV, V.I., otv.red.;
GALANOVA, V.V., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red.

[Mining mechanic's handbook] Spravochnik mekhanika gorno-
rudnykh predpriatii. Izd.2., perer. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po gornomu delu, 1961. 787 p.

(MIRA 14:6)

(Mining machinery)

LIPOV, Pavel Petrovich. Prinimala uchastiye VESELKOWA, K.S., dotsent,
kand.tekhn.nauk. ORLOV, M.P., red.; SIDOROV, V.N., inzh., red.
izd-va; KARASEV, A.I., tekhn.red.

[Mining machine operators] Gornyi mekhanik. Moskva, Gos.nauchno-
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960.
266 p. (MIRA 13:5)
(Mining engineering) (Mining machinery)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELKOVA, K.S.

Experimental investigations of the cyclic strength of threaded
joints. Trudy Ural.politekh.inat. no.104:113-123 '61. (MIRA 14:6)

(Fastenings—Testing)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VESELKOVA, K. S.

Veselkova, K. S.

"Investigation of the Strength of Screw Threads under the Action of Variable Loads (Applied to Hoisting Machinery)." Min Higher Education USSR.
Ural Polytechnic Inst imeni S. M. Kirov. Chair of Hoisting and Transport
Machinery. Sverdlovsk, 1955. (Dissertation for the Degree of Candidate
in Technical Sciences).

SO: Knizhnaya Letopis', No. 27, 2 July 1955.

VESELKOVA, Klavdiya Semenovna LIPOV, Pavel Petrovich; GUDALOV,
V.P., otv. red.; GADZHINSKAYA, M.A., red. izd-va;
PROZOROVSKAYA, V.L., tekhn. red.; MAKSIMOVA, V.V., tekhn.
red.

[Continuous transportation in ore dressing plants] Nepre-
ryvnyi transport na obogatitel'nykh fabrikakh. Moskva, Gos-
gortekhizdat, 1963. 153 p. (MIRA 16:7)
(Ore dressing) (Conveying machinery)

BOKHOVKA, I.M.; VESELKOVKA, Ye.G.

Physicochemical analysis of binary systems of phenol and acetic acid with its chloro derivatives. Zhur. ob. khim. 28 no.3:819-823
Mr '58. (MIRA 11:5)

1. Arkhangel'skiy lesotekhnicheskiy institut.
(Acetic acid) (Phenol)

AUTHORS:

Bokhovkin, I. M., Veselkova, Ye. G.

79-28 3-55/61

TITLE:

Physical and Chemical Analysis of Binary Systems Formed of Phenol With Acetic Acid and Its Derivatives (Fiziko-khimicheskiy analiz dvoynikh sistem, obrazovannykh fenolom s uksusnoy kislotoy i yeye khlorproizvodnymi)

PERIODICAL:Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 819-823
(USSR)**ABSTRACT:**

As is known the entrance of chlorine into the radical of acetic acid leads to the increase of acidity and consequently to an intensification of the chemical reaction with other components (references). The problem of the present work is the reaction of phenol with acetic acid and its chlorine derivatives in liquid phase. The corresponding method was described earlier (references 2-5). The initial products were purified: acetic acid by freezing, phenol, monochloro- and trichloro acetic acid by distillation. The concentrations were expressed in molar percents, the surface tension in dyn/cm, the viscosity in centi-Poise. The surface tension, viscosity and density were investigated for all systems at 50, 70 and 90° C. The physical and chemical investigation of the binary

Card 1/2

Physical and Chemical Analysis of Binary Systems Formed of
Phenol With Acetic Acid and Its Derivatives

79-28 3-55/61

systems consisting of phenol with acetic acid and its chlorine derivatives was carried out according to the methods of density, viscosity and of surface tension. The isothermal lines of density, viscosity and surface tension in systems consisting of acetic acid and monochloroacetic acid with phenol do not give any hints as to the presence of compounds in molten medium. The isothermal lines of viscosity and surface tension in the system trichloroacetic acid-phenol as fusion diagram indicate the presence of the compound $C_6H_5OH \cdot CCl_3COOH$. From the comparison of the isothermal lines of surface tension, density and viscosity of all three investigated systems can be seen that the introduction of chlorine into the radical of acetic acid leads to an increase of the chemical reaction of phenol with acetic acid derivatives. There are 6 figures, 9 tables, and 10 references, all of which are Soviet.

ASSOCIATION: Arkhangel'skiy lesotechnicheskiy institut
(Arkhangel'sk Institute for Forestry Engineering)

SUBMITTED: February 2, 1957

Card 2/2

IOFFE, L.P.; VESELKOVSKIY, R.V., red.

[Analyzing the various methods of fortifying tower cooking acid] Analiz razlichnykh sposobov ukrepleniia bashennoi kisloty. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovaniii po lesnoi, tselliulozno-bumazhnoi der'vooobrabatyvaiushchei promyshl. i lesnomu khoz., 1963. 26 p. (MIRA 17:9)

VESEL'MAN, S.G.

USSR/Chemical Technology - Chemical Products and Their
Application. Treatment of solid mineral fuels

I-12

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12849

Author : Vesel'man S.G.

Inst : Khar'kov Mining Institute

Title : Utilization of Brown Coal Semicoke as a Thinning Additive
of Coking Mixture as Partial Substitute for PS Grade Coal

Orig Pub : Nauch. tr. Khar'kovsk. Gorn. in-ta, 1956, 3, 35-55

Abstract : Review and general comments relating to the question of
utilization of semicoke of USSR varieties of brown coal
as a thinning additive of coking mixtures for the purpo-
se of increasing the range of coking coal varieties and
partial replacement of grade PS coal.

Card 1/1

- 212 -

VESEL'NIKOV, L.V.

External respiration in preoperative selection and in the postoperative evaluation of results in mitral commissurotomy. Grud, khir. 3 no.2: 30-36 '61. (MITRAL VALVE—SURGERY) (RESPIRATION) (MIFRA 14:4)

VESEL'NIKOV, L.V..

Л. В. Весельников защитил 2/VI 1960 г. в Совете Военно-медицинской академии им. С. М. Кирова (Ленинград) диссертацию на тему "Изменение гемодинамики и внешнего дыхания у больных митральным стенозом до и во время операции по коррекции митрального стеноза".

Показано, что комплексное изучение минутного объема кровообращения и внешнего дыхания позволяет в большинстве случаев правильно оценить степень сужения левого предсердного отверстия. Уменьшение минутного объема обычно свидетельствует о резком митральном стенозе и является прямым показанием к митральной комиссуротомии. Нормальная величина дебита сердца требует обязательного изучения внешнего дыхания и в сочетании с его нарушением также является показанием к хирургическому лечению.

Candidate of Medical Sciences

Dissertations approved by the Higher Attestation Commission in
January and February of 1961. Terap. arkh. no.6:117-121 '61

VESEL'NIKOV, L.V., kand.med.nauk

Hemodynamic study using a dye method. Kardiologija 2 no.5:74-77
S-0 '62. (MIRA 15:12)

1. Iz kafedry propedevtiki vnutrennikh bolezney (nachal'nik -
deystvitel'nyy chlen AMN SSR zasluzhennyy deyatel' nauki prof.
N.N.Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii
imeni S.M.Kirova.

(BLOOD--CIRCULATION)

VESHL'NIKOV, L.V.

Volume of the circulating blood and circulation time in patients
with mitral stenosis before and after mitral commissurotomy. Terap.
arkh. 31 no.12:54-60 D '59.

(MIRA 13:4)

1. Iz kafedry propedevtiki vnutrennikh bolezney (nachal'nik - deyst-
vitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof. N.N.
Savitskiy) Voyennno-meditsinskoy ordena Lenina akademii imeni S.M.
Kirova.

(COMMISSUROTOMY)
(BLOOD CIRCULATION)

VESEL'NIKOV, L.V., (Leningrad)

Preoperative and postoperative minute volume in commissurotomy.
Klin.med. 36 no.5:93-103 My '58 (MIRA 11:7)

1. Iz kafedry propedevtiki vnutrennikh bolezney (nach. - deystvitel'nyy chlen AMN SSSR, zasluzhenny deyatel' nauki, laureat Stalinskoy premii prof. N.N. Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(COMMISSUROTOMY,

preop. & postop. minute volume (Rus))

(BLOOD VOLUME,

minute volume before & after commissurotomy (Rus))

VESEL'NITSKIY, I.M., inzh.

Increase in the light emission of large fluorescent lamps.
Svetotekhnika 10 no.11:i-7 N '64.

(MIRA 17:12)

1. Vsesoyuznyy svetotekhnicheskiy institut.

SARYCHEV, G.S.; VESEL'NITSKIY, I.M.; ROKHILIN, G.N.

New method for fastening surface thermocouples, Izm. tekhn.
no. 9:28-29 S '63. (MIRA 17:1)

L 19000-63

EPR/BDS Ps-4 -WW

ACCESSION NR: AP3007547

8/0115/63/000/009/0028/0029

AUTHOR: Sary*chev, G. S.; Vessel'nitskiy, I. M.; Rokhlin, G. N.

12

TITLE: New method of fastening surface thermocouples

SOURCE: Izmeritel'naya tekhnika, no. 9, 1963, 28-29

TOPIC TAGS: thermocouple, thermocouple measurement

ABSTRACT: A simple bimetal-spring device is described for fastening a thermocouple to the bulb of a mercury-quartz lamp for the purpose of measuring the temperature on the bulb surface. Elongation of the thermocouple with temperature is compensated for by bending the bimetal spring so that proper contact with the bulb is maintained within a temperature (400-900C tested) range. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 14Oct63

ENCL: 00

SUB CODE: IE

NO REF Sov: 001

OTHER: 000

Card 1/1

L 23125-66 EWT(m)/ETC(f)/EWG(m)/EWP(t) IJP(c) RDW/JD

ACC NR: AP6001583

SOURCE CODE: UR/0120/65/000/006/0157/0159

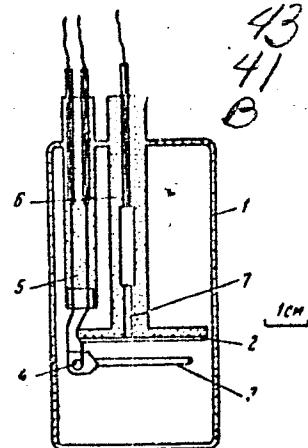
AUTHOR: Vesel'nitskiy, I. M.ORG: All-Union Scientific Research Institute of Illuminating Engineering, Moscow
(Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut)

TITLE: Tellurium-cathode vacuum photocell for ultra-violet radiation

SOURCE: Pribory i tekhnika eksperimenta, no. 6,
1965, 157-159

TOPIC TAGS: tellurium, vacuum photocell, photocathode, photoelectric cell, resonance line, UV radiation

ABSTRACT: The development of a new tellurium-cathode photocell (see figure) is reported. Quartz envelope 1 houses tellurium-film photocathode 2 on a disk backing. Anode 3 is made from a 0.5-mm ring-shaped nickel wire. Tungsten-spiral tellurium dissipator 4 is mounted inside the anode ring. A 3-conductor stem includes anode lead-in 5, quartz-disk holder 6, and cathode lead-in 7. The photocell is sensitive within 170-240 nm, with its maximum sensitivity lying within 180-190 nm. The photocell



Tellurium-cathode photocell

Card 1/2

UDC: 621.383.2.032.11

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L 23125-66
ACC NR: AP6001583

can be used for selective measurement of the Hg resonance line with $\lambda = 184.9$ nm;
the cell does not respond to the second resonance line. "The author wishes to thank
T. A. Povolotskaya and V. G. Boos who took part in the photocell development and
measurements." Orig. art. has: 3 figures.

SUB CODE: 0924 SUBM DATE: 01Oct64 / ORIG REF: 002 / OTH REF: 001

Card 2/2 RB

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CIA-RDP86-00513R001859610013-7"

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CIA-RDP86-00513R001859610013-7

VESLOV, A., doktor pedagogicheskikh nauk.

The revolutionary past of technical schools. Prof.-tekhn.obr.
12 no.12:3-4 D '55. (MLRA 9:3)
(Technical education-- History)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

DEMEKHINA, T., agronom po zashchite rasteniy; VESELOV, A.

In two neighboring districts. Zashch. rast. ot vred. i bol.
5 no.1:12-14 Ja '60. (MIRA 14:6)
(Mozhayski District--Plants, Protection of)
(Volokolamsk District--Plants, Protection of)

VESELOV, A., prof., doktor pedagog. nauk

Vocational education in the CPSU draft program, Prof.-tekhn. obr.
18 no.10:10-12 O '61. (MIRA 14:11)

(Vocational education)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

~~VESELOV, A.~~

The STIAM automatic thermal fire alarm. Posh.delo 3 no.12:18-19
D '57. (MIRA 10:12)
(Fire alarms)

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CIA-RDP86-00513R001859610013-7"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A., inzh.

Protection against fire in Dawtherm boilers. Posh. delo 5 no.10:9
O '59.

(MIRA 13:2)

(Boilers--Safety appliances)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VSELOV, A., inzh.

Laying of cables and wires in troughing. Pozh.delo 6 no.4:6-7 Ap
'60. (MIRA 13:11)

(Electric wiring)

VESNOV, A., inzh., starshiy nauchnyy sotrudnik

Fires caused by electric installations. Pozh.delo 6
no.8:6-7 Ag '60. (MIRA 13:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut
protivopozharnoy oborony.
(Fire prevention)
(Electric wiring--Safety measures)

ZHDANOV, S., kand.tekhn.nauk; MAKAROV, V., inzh.; VESELOV, A., inzh.

Fast acting electric drive for automatic fire-extinguishing
systems. Pozh. delo 6 no. 11:23-24 N '60. (MIRA 13:12)
(Fire extinction) (Automatic control)

VESLOV, A., inzh., starshiy nauchnyy sotrudnik

APM electric wires. Pozh. delo 7 no. 2:10-11 F '61.

(MIPA 14:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut protivopozharnoy
oborony.

(Electric wires, Insulated)

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CIA-RDP86-00513R001859610013-7

MEKLER, A.G., kandidat tekhnicheskikh nauk; VESELOV, A.A., inzhener.

Automatization of the electric drive of a crane. Mekh. trud. rab. 7 no. 5:46
Mg '53. (MLRA 6:5)
(Electric driving)

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CIA-RDP86-00513R001859610013-7"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A.A.

KOZLOVSKIY, L.I., inzhener; VESELOV, A.A., inzhener; SHCHERBACHEV, K.B.,
inzhener.

New tower crane for large-panel construction. Mekh.trud.rab. 9
no.10 O '55. (MLRA 9:1)
(Cranes, derricks, etc.)

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A.A., inzh.; KARAEV, N.A., inzh.; KOZLOVSKIY, L.I., inzh.

The MSK-5-5/20 mobile tower crane. Mekh. stroi. 15 no.11:22-25
N '58.

(Cranes, derricks, etc.)

(MIRA 11:12)

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CIA-RDP86-00513R001859610013-7"

8(5)

Sov/100-59-5-4/14

AUTHOR: Veselov, A.A., Engineer

TITLE: On the Electric Driving Gear of Tower Cranes

PERIODICAL: Mekhanizatsiya stroitel'stva, 1959, Nr 5, pp 11-14, (USER)

ABSTRACT: The article describes various systems of speed regulation and control of electric drives used in tower cranes, such as the drive throttling system, the d/c break generator, the micro-drive, the a/c break mechanism which is turned out by the Zavod "Dinamo" Eastim Kirov ("Dinamo Plant" im Kirov). Pointing out the drawbacks of these systems, the author concentrates on a type of electric drive developed by VNIITMASH which is particularly suitable for hoisting of heavy loads. The change in speed is obtained by means of 2 electric motors with a shortcircuited rotor; working independently, the motors impart rotation through reducers to the symmetric planetary transmission gear, which sets the drum of the hoist revolving. The two motors can work either individually (alone) or together, in which case they can work with or against one another, which implies 4 steps of speed moving up or down. There are 2 alternatives in the design of the multi-speed hoist; one provides for 2 standard reducers and a planetary driving system inside the drum - the other has one common reducer including the planetary driving gear, which operates under the action of 2 short-circuited electric motors. Circuit

Card 1/2

On-the Electric Driving Gear of Tower Cranes

SOV/100-59-5-4/14

Diagram Nr 2 shows the control of the drum such as installed in crane MK-5-5/20. The article describes the way the hoist is operated by pedals from the cabin or by pushbuttons in case of remote control. Tests have shown that the multi-speed hoists are the most suitable for construction work. There are 1 schematic and 1 circuit diagram.

Card 2/2

KARNEYEV, N.A., inzh.; VSELOV, A.A., inzh.

Improved design of tower cranes. Nov.tekh.mont. i spets.rab. v stroi. 21
no.3:11-15 Mr '59. (MIRA 12:3)

1. TSentral'noye konstruktorskoye byuro Upravleniya mekhanizatsii
spetsial'nykh i montazhnykh rabot Ministerstva stroitel'stva RSFSR.
(Cranes, derricks, etc.)

VESELOV, A.A. [Veselov, A.O.]

New data on the Oligocene age of the arenaceous Foraminifera zone
in the Black Sea Lowland. Dop. AN URSR no. 5;635-638 '63.
(MIRA 17:9)

1. Dnepropetrovskaya ekspeditsiya Ukrainskogo nauchno-issledova-
tel'skogo gornorudnogo instituta. Predstavлено akademikom AN UkrSSR
V.G.Bondarchukom [Bondarchuk, V.H.].

VESELOV, A.A. [Veselov, A.O.]; KRAYEVA, Ye.Ya. [Kraieva, IE.IA.]

Stratigraphy of Oligocene sediments in the northwestern Black
Sea Region. Geol. zhur. 23 no.4:39-50 '63 (MIRA 17:7)

1. Dnepropetrovskaya ekspeditsiya Ukrainskogo nauchno-issle-
dovatel'skogo gornorudnogo instituta i Institut geologiches-
kikh nauk UkrSSR.

VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I.,
inzh.; STEPANOV, A.I., inzh.; TUSHNYAKOV, M.D., inzh.;
SHCHEPET'YEV, A.I., inzh.; VOLNYANSKIY, A.K., glav. red.;
SUDAKOV, G.G., zam. glav. red.; TARAN, V.D., red.;
SEREBRENNIKOV, S.S., red.; MIKHAYLOV, K.A., red.; STAROVEROV,
I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.

[Hoisting and conveying equipment for assembly and specialized
operations] Pod"emno-transportnoe oborudovanie dlia montazh-
nykh i spetsial'nykh rabot. Izd.2., dop. Moskva, Stroizdat,
1964. 679 p.

(MIRA 18:4)

VESELOV, A.A.; VOLKOVA, N.S.

Age of the Askaniyskaya series of the northern wing of the
Black Sea Lowland and the Ol'ginskoye series of the Northern
Caucasus. Dokl. AN SSSR. 154 no.5:1084-1086 F'64.
(MIRA 17:2)

1. Predstavleno akademikom D.V. Nalivkinym.

VESELOV, A.A., inzh.; KARNEYEV, N.A., inzh.; KOZLOVSKIY, L.I., inzh.;
STEPANOV, A.I., inzh.; TUSHNYAKOV, M.D., inzh.; SHCHEPET'YEV,
A.I., inzh.; VDOVENKO, Z.I., red. izd-va; YUDINA, L.A., red.
izd-va; KASIMOV, D.Ya., tekhn. red.

[Hoisting and conveying equipment for assembly and specialized
operations] Podzemno-transportnoe oborudovanie dlia montazhnykh
i spetsial'nykh rabot. Pod red. A.I. Shchepet'eva. Moskva, Gos-
stroizdat, 1962. 634 p. (MIRA 16:5)
(Cranes, derricks, etc.) (Hoisting machinery)
(Conveying machinery)

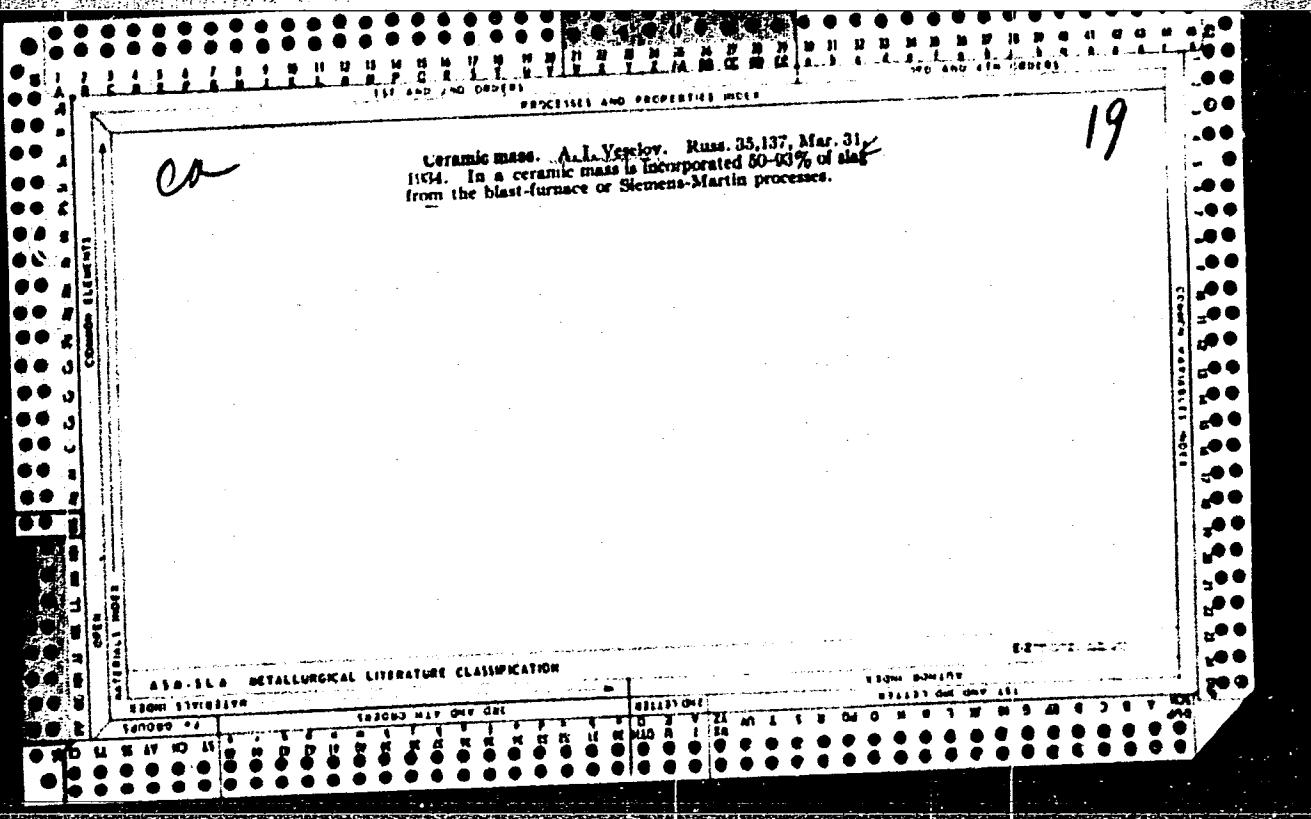
VESELOV, A.G., red.; YERSHOV, P.R., ved. red.; MUKHINA, E.A., tekhn.
red.

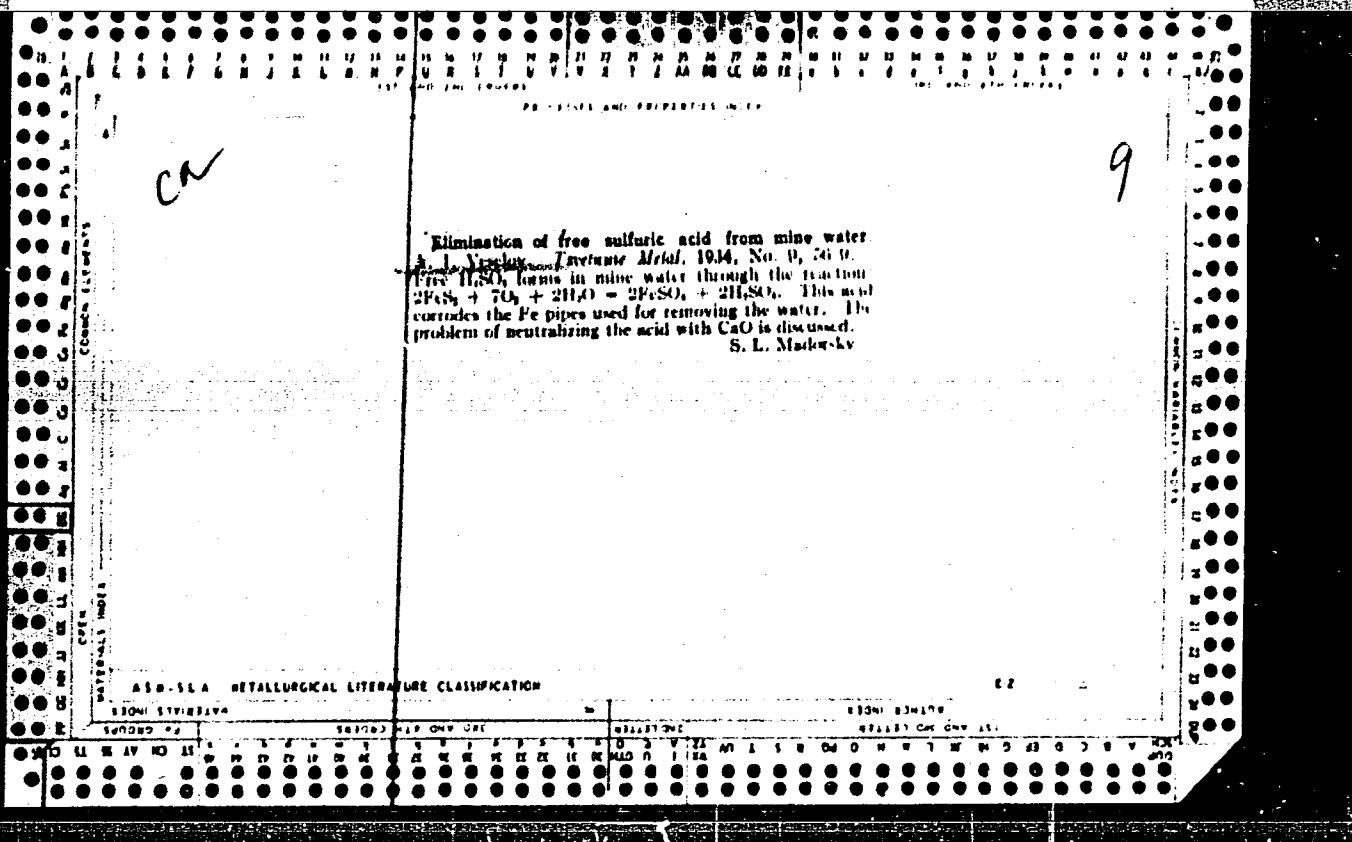
[Standard job classification manual; mixed occupations]
Edinyi tarifno-kvalifikatsionnyy spravochnik rabochikh;
skvoznye professii. S prilozheniem dopolnenii i izmenenii...
ot 23 ianvaria 1960 g. No.90/P-1 i ot 8 sentiabria 1960 g.
No.1098/P-21. Moskva, Gostoptekhizdat, 1961. 684 p.

(MIRA 15:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po voprosam truda i zarabotnoi platy.

(Occupations—Classification)





CA

A method for the neutralization of acid mine waters
A. I. Veselov. *Tsvetnaya Metal.* 1938, No. 8, 26-8; Khim.
Referat. ZNIZH. 2, No. 3, 102 (1939).—In order to overcome
the premature wear of the water-pumping app., of cables
and of air pipes, and the pollution of water reservoirs with
mine water contg. free H_2SO_4 , a mechanized method for
the purification of mine water is proposed. The water is
treated with milk of lime which is added directly into the
absorption pipe of the pump. W. M. Henn

ABR-364 METALLURGICAL LITERATURE CLASSIFICATION

VESELOV, A.I., prof., doktor tekhn.nauk

Prospects for the development of mine drainage in deep horizons
and mines having a large inrush of water. Gor.zhur. no.2;50-52
F '64. (MIRA 17:4)

1. Sverdlovskiy gornyy institut.

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CIA-RDP86-00513R001859610013-7

VESELOV, A. I.

Mine pumping Sverdlovsk, Gos. Nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1947. 278 p. (48-17244)

TN321.V4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VESELOV, A. I.

Zashchita ot korrozii vodootlivnykh ustanovok. Sverdlovsk, Metallurgizdat, 1950. 207 p. illus.

Bibliography: p. 201-204.

Protection against corrosion of water drain installations.

DLC: TD491.v4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

1. VESELOV, A. I.
2. USSR (600)
4. Technology
7. Mine turbines, Moskva, Metallurgizdat, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

VESELOV, A.I.

Corrosion and Anticorrosives

"Protecting water drains against corrosion." A.I. Veselov. Reviewed by Prof. A.V. Dokukin. Gor. zhur., No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

ARASHKEVICH, V.M., dotsent; VESELOV, A.I., professor; VOLOTKOVSKIY, S.A., professor; ZHUKOV, D.I., dotsent; IPPOLITOV, M.D., dotsent; KUTYUKHIN, P.I., dotsent; KOMPANECKIS, V.P., dotsent; MALAKHOV, A.Ye., professor; NEUDACHIN, G.I., dotsent; NYABUKHIN, G.Ye., professor; SAKOVTSOV, G.P., dotsent; STOYLOV, B.A., dotsent; TROP, A.Ye., dotsent; FEDOROV, S.A., professor; YAROSH, A.Ye., dotsent, redaktor; TARKHOV, A.G., redaktor; GAMBERTSEVA, Ye.Ye., redaktor; GUROVA, O.A., tekhnicheskiy redaktor.

[Collection of articles on geophysical methods of prospecting]
Sbornik statei po geofizicheskim metodam razvedki. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedor, 1955. 109 p.
(MLRA 8:11)

1. Sverdlovsk. Gornyy institut.
(Prospecting--Geophysical methods)

VESHLOV, Aleksey Illarionovich, doktor tekhnicheskikh nauk, professor;
LATSAKOV, V.I., redaktor; LUCHKO, Yu.V., redaktor; KOVALEVKO,
N.I., tekhnicheskiy redaktor.

[Mine pumping] Rudnichnyi vodootliv. Sverdlovsk, Gos. nauchno-
tekhn. izd-vo lit-ry po chernoi i tsetnoi metallurgii, Sverdlov-
skoe otd-nie, 1956. 532 p.
(MLRA 9:6)
(Mine pumps) (Mine drainage)

VESELOV, A.I., professor, doktor tekhnicheskikh nauk.

"Automatization of mine drainage," V.M. Popov. Reviewed by A. I.
Veselov. Gor.shur. no.6:64 Je '56. (MLRA 9:8)

1. Sverdlovskiy gornyy institut.
(Mine drainage) (Popov, V.M.)

VESRLOW, A.I., professor, doktor tekhnicheskikh nauk.

Drainage of deep mines and the design of high pressure and efficient
centrifugal pumps. Gor.zhur.no.9:42-46 S '56. (MLRA 9:10)

1.Sverdlovskiy gornyy inst'tut.
(Mine drainage) (Centrifugal pumps)

YROLOV, Petr Prokhorovich, dotsent. Prinimali uchastie: ZVYAGIN, V.S.,
dotsent; PETROV, I.P., dotsent. VESKOV, A.I., prof., doktor
tekhn.nauk, retsenzent; BOROKHOVICH, A.I., dotsent, retsenzent;
KHOMITSSEVICH, K.I., otv.red.; D'YAKOVA, G.B., red.izd-va;
SABITOV, A., tekhn.red.; LOMILINA, L.N., tekhn.red.

[Mine compressor equipment] Budnichnoe kompressornoe khozisistvo.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961.
227 p.

(Air compressors)

VESELOV, A.I., prof., doktor tekhn.nauk

Increasing the reliability and coefficient of efficiency of
main ventilation apparatus. Gor.zhur. no.8:43-48 Ag '62.
(MIRA 15:8)

1. Sverdlovskiy gornyy institut.
(Mine ventilation)

VESELOV, A. I., doktor tekhn. nauk, prof.; MALYGINA, Ye. F., otv. sa
vypusk

[Design of mine fans] Konstruktsii shakhtnykh ventiliatorov.
Sverdlovsk, Sverdlovskii gornyi in-t im. V. V. Vakhrusheva,
1962. 59 p.
(Fans, Mechanical)

VESELOV, A.I., doktor tekhn. nauk

Ways of improving mine turbomachines. Gor. zhur. no.2:44-46 F '65.
(MIRA 18:4)

1. Sverdlovskiy gornyy institut.

VESELOV, A.I., doktor tekhn. nauk, prof.; NOSYREV, B.A., kand. tekhn. nauk; ZUB, M.P., kand. tekhn. nauk

Results of testing ventilation systems in Kazakhstan non-ferrous metal mines. Gor. zhur. no. 12:38-41 D '65.
(MIRA 18:12)

1. Sverdlovskiy gornyy institut (for Veselov, Nosyrev).
2. Kazakhskiy politekhnicheskiy institut (for Zub).

VESELOV, A. I.

Pozharnaya bezopasnost' pri elektrogazosvarochnykh rabotakh (Fire safety in electric welding work) Moskva, Izd-vo Ministerstva kommunal'nogo khozyaystva RSFSR, 1954.
154 p. illus., tables. "Ispol'zovannaya Literatura": p. 152

SO: N/5
741,48
.V5

KIREYEV, M.I.; DZHALALOV, Ye.M.; UL'YASHCHENKO, V.Ye.; VESLOV, A.I.;
PROSHCHIN, Ye.A.; SEREBRYAKOV, V.M.

Discussion on the use of PPV wire. Prom.energ. 11 no.7:19-27
Jl. '56. (MLRA 9:10)

1. Gosenergonadzor Ministerstva elektrostantsii (for Kireyev)
2. Glavnoye upravleniye pozharnoy okhrany Ministerstva vnutrennikh
del SSSR (for Dzhalalov) 3. TSentral'nyy nauchno-issledovatel'skiy
institut protivopozharnoy oborony (for Ul'yashchenko, Veslov)
4. TSentroelektromontazh (for Proshchin) 5. Trest "Moselektromontazh-1"
(for Serebryakov).

(Electric wire, Insulated)

VESELOV, A.I.

VESELOV, A.I.; ALEKSEYEV, M.V., redaktor; IOFFE, M.L., redaktor, Gurova,
O.A., tekhnicheskiy redaktor

[Fire safety in electric and gas welding] Posharnaya bezopasnost'
pri elektro-gazosvarochnykh rabotakh. Moskva, Izd-vo Ministerstva
komunal'nogo khoziaistva RSFSR, 1954. 154 p. (MLRA 7:9)
(Fire prevention) (Welding--Safety measures)

VESELOV, A. I., CHERKASOV, V.N., redaktor; KONYASHINA, A.D., tekhnicheskiy
redaktor

[Fire prevention inspection of electric equipment] Protivopozharnoe
obsledovanie elektroustanovok. Moskva, Izd-vo Ministerstva komunal'-
nogo khoziaistva RSFSR, 1957. 124 p. (MIRA 10:3)
(Electric apparatus and appliances--Safety measures)
(Fire prevention)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A.I.

Reducing fire hazards caused by electric systems. Prom.energ. 17
(MIRA 15:3)
no.2:26-27 F '62.
(Electric engineering--Safety measures)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VESELOV, A.I., prof., doktor tekhn. nauk; ZUB, M.P., gornyy inzh.

Mechanism of simultaneously turning blades of axial fan
rotors. Gor. zhur. no.11:38-41 N '63. (MIRA 17:6)

1. Sverdlovskiy gornyy institut.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A.M., inzh.

Automatic regulation of the delivery of a deep well pump.
Mekh. i avtom. proizv. 18 no.1:10-11 Ja '64.
(MIRA 17:8)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VESELOV, A.M.; SNEZHKO, V.B.

Portable instrument for water-level measurements in piezometric wells. Priborostroenie no. 3:28 Mr '63. (MIRA 16:6)

(Liquid level indicators)

VESELOV, A.M., inzhener; DUKHAN, B.S., inzhener; SENATOROVA, I.V., inzhener;
KONOVALOV, V.A., tekhnik

Automatic disconnecting of welding apparatus in the absence of
load. Prom. energ. 17 no.9:5-6 S '62. (MIRA 15:8)
(Electric welding)

VESELOV, A.M., inzh.; SNEZHKO, V.B., inzh.

Electrical method of checking the performance of filters in the boreholes for depth ground water lowering. Ugol '37 no.5:40-42
My '62. (MIRA 15:6)

1. Vsesoyuznyy institut po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.
(Mine water)
(Filters and filtration—Testing)

ARASHKEVICH, V.M., dotsent, redaktor; VESLOV, A.M., professor, redaktor;
VOLOTKOVSKIY, S.A., professor, redaktor; ZHUKOV, L.I., dotsent,
redaktor; IPPOLITOV, N.D., dotsent, redaktor; KAMPANEYETS, V.P.,
dotsent, redaktor; KUTYUKHIN, P.I., dotsent, redaktor; MALAKHOV,
A.Ye., professor, redaktor; MEUDACHIN, G.I., dotsent, redaktor;
RYABUKHIN, G.Ye., professor, redaktor; SAKOVTSOV, G.P., dotsent,
redaktor; STOYLOV, B.A., dotsent, redaktor; TROP, A.Ye., dotsent,
redaktor; FEDOROV, S.A., professor, redaktor; YAROSH, A.Ya..
dotsent, redaktor; SLAVOROSOV, A.Ih, redaktor izdatel'stva;
ALADOVA, Ye.I., tekhnicheskiy redaktor

[Problems in the efficient organization of surveying in mining
enterprises] Voprosy ratsionalizatsii marksheidarskoj sluzhby na
gornykh predpriatiakh. Moskva, Ugletekhizdat, 1955. 128 p.

1. Sverdlovsk, Gornyy institut.
(Mine surveying)

(MLRA 9:10)

AUTHOR: Veselov, A.M., Engineer SOV-98-58-8-16/22

TITLE: Use of Television in Hydraulic Engineering (O primenenii televideniya v gidrostroytel'stve)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, № 8, pp 47-48 (USSR)

ABSTRACT: The Vsesoyuznyy nauchno-issledovatel'skiy institut MRTP (The All-Union Scientific Research Institute MRTP) has devised industrial television sets PTU-0, PTU-1, PTU-2, PTU-3 (Figure 1a-1g) for industry and transports. The author recommends the use of such sets for the hydraulic engineering. There are 7 diagrams.

1. Television--Applications

Card 1/1

VESELOV, A.M., inzh.; POLYAKOV, K.V., inzh.; SENATOROVA, I.V., inzh.

Photorelay for controlling electric lighting. Svetotekhnika
7 no.2:27-28 F '61. (MIRA 14:10)

1. Orgenergostroy, g. Kuybyshev.
(Electric lighting) (Electric relays)

S/196/62/000/009/018/052
E194/E155

AUTHORS: Veselov, A.M., Polyakov, K.V., and Senatorova, I.V.

TITLE: A photo-relay for controlling artificial lighting

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika,
no. 9, 1961, 18, abstract 9V 153. (Svetotekhnika,
no. 2, 1961, 27-28)

TEXT: The article describes a simple photo-relay circuit with the advantages of high sensitivity at low illumination levels (1 - 3 lux). The relay gives a single positive response when the illumination is increased or reduced. The device uses a bridge circuit with a polarising relay and is unaffected by variation of the current in the circuits. Experimental models of the photo-relay were installed to control street lighting in a housing area and on construction sites at the Kuybyshevgidrostroy. During six months service the photo relay was entirely satisfactory.

One figure.

[Abstractor's note: Complete translation.]

Card 1/1

VESELOV, A.M., inzh.

Water level indicating relay using semiconductor thermistors.
Energetik 9 no.4:10 Ap '61. (MIRA 14:8,
(Liquid level indicators)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESFILOV, ARTEMY NIKOLAYEVICH

1/5
831.3
.V5

Nizsheye professional 'no-tekhnicheskoye otzazovaniye v RSFSR. Professional technical education in RSFSR on a limited level. Moskva, Trudrezervizdat, 1955. 326 P. illus., tables.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

AUTHOR: Veselov, A.N., Doctor of Pedagogical Sciences, Professor SOV/3-58-12-9/43

TITLE: To Revive the Industrial-Pedagogical Institutes (Vozrodit' industrial'no-pedagogicheskiye instituty)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 12, pp 37 - 38 (USSR)

ABSTRACT: The Soviet system of higher pedagogical education is one-sided: it trains only teachers on subjects of general education and does not turn out instructors on special general-engineering subjects for technical, trade, and factory-and-workshop schools. It cannot provide skilled teachers on subjects of the polytechnical cycle for schools of general education. The lack of such teachers has been felt for some time. Instruction on these subjects is carried out chiefly by the engineering-technical workers of plants. But these workers have no pedagogical and methodical training. It is therefore necessary to organize several multi-faculty industrial-pedagogical and agricultural-pedagogical institutes

Card 1/2

To Revive the Industrial-Pedagogical Institutes

SOV/3-58-12-9/43

which will develop scientific work in the field of professional-technical education, which is at present entirely neglected.

ASSOCIATION: Kurskiy pedagogicheskiy institut (Kursk Pedagogical Institute)

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VSELOV, ARTEMII NIKOLAYEVICH

Professional'no-tekhnicheskoye Obrazovaniye v SSSR; ocherki po istorii
sredhego i nizshego proftekhnobrazo-vaniya. Moskva, Proftekhhizdat, 1961.

434 p. illus., diagrs., ports., tables.

Includes Bibliographical References.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

SHKATOV, Ye.F.; MAKLASHIN, Z.I.; VESELOV, A.N.; BARAYEV, A.A.

Dynamic braking of asynchronous motors with a short-circuited
rotor. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i
tekhn.inform., 18 no.1:45 Ja '65. (MIRA 18:4)

VESELOV, A.O.

New data on the stratigraphic position of layers with Corbulidae fauna in Oligocene sediments in the northern part of the Black Sea region. Geol. zhur. 22 no.3:98-100 '62. (MIRA 15:7)

1. Dnepropetrovskaya ekspeditsiya Ukrainskogo nauchno-issledovatel'skogo gornorudnogo instituta.
(Black Sea region—Mollusks, Fossil)

VESELOV, A.P., [Veselov, A.P.], kand.tekhn.nauk

Using nomograms in determining mine pressure on underground
structures. Shor.trud.VISI no.4:91-100 '58. (MIRA 12:8)
(Mining engineering)

VESELOV, A.P., kand.istoricheskikh nauk

Communist Youth Leagues of the Leningrad Electrical Engineering
Institute are working in the Virgin Territory. Izv. LETI no.45:
318-333 '61. (MIRA 16:5)
(Virgin Territory--Agricultural workers)

ACCESSION NR: AT4042700

8/0000/63/000/000/0339/0343

AUTHOR: Lebedinskiy, A. V.; Arlashchenko, N. I.; Busygina, V. Ye.; Vartbaronov, R. A.; Veselov, A. S.; Volokhova, N. A.; Grigor'yev, Yu. G.; Yemel'yanov, M. D.; Kalyayeva, T. V.; Krylov, Yu. V.; Polyakov, B. I.; Farber, Yu. V.

TITLE: Effects of Coriolis accelerations on the human organism

SOURCE: Konferentsiya po aviationskoy i kosmicheskoy meditsine, 1963. Aviationskaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 339-343

TOPIC TAGS: vestibular analyzer, cosmonaut selection, cosmonaut training, semi-circular canal, acceleration, rotation, nystagmus, optical analyzer, Coriolis acceleration

ABSTRACT: Studies of the effect of prolonged Coriolis accelerations on the human organism must be made as a preliminary step toward the creation of artificial gravity in spaceships. Studies were performed in a slowly rotating MBK-1 chamber (a cylindrically shaped room 2.1 m in diameter and 2.3 m high, equipped with two armchairs). In the first series of experiments, 13 healthy persons were subjected

Card 1/2

ACCESSION NR: AT4042700

to prolonged rotation of 1 to 5 hours at an angular velocity of 5.3°/sec. In the second series of experiments, 4 subjects were rotated for 24 hours at angular velocities of 5.3, 10.6, and 21.2°/sec. Coriolis accelerations were created periodically by tilting the body and head in a plane perpendicular to the plane of rotation of the chamber at the rate of 1 movement/sec. Prolonged stay of subjects with normal vestibular sensitivity under conditions of rotation at 5.3, 10.6, and 21.2°/sec resulted in functional changes in the condition of the central nervous system and the cardiovascular system, and in disruption of the body temperature control and the balancing function. The degree of vegetative disorders was found to be directly proportional to the speed of rotation and the degree of vestibular sensitivity of the subjects. During cumulative action of Coriolis accelerations, the majority of the subjects developed an adaptation which was noted from 1 to 5 hours after beginning of the rotation. On the basis of the results obtained, the method of prolonged slow rotation is recommended for training purposes.

ASSOCIATION: none

SUBMITTED: 27Sep63

ENCL: 00

SUB CODE: 1B

NO REF Sov: 000

OTHER: 000

Card 2/2

VESELOV, A.Ya.

Sensitivity of *Shigella* to antibiotics and the use of Flukairev's
bactoagar with syntomyycin in laboratory diagnosis of dysentery.
Zhur.mikrobiol., epid. i immun. 42 no.3:29-31 Mr '65.

(MIRA 18:6)

I. Jeninogorskaya infektsionnaya pol'nitsa, Vostochno-Kazakhstanskaya
oblast'.

ANDRYUSHCHENKO, A.I., doktor tekhn. nauk, prof.; LAPSHOV, V.N., kand. tekhn. nauk, dotsent; PONYATOV, V.A., inzh.; GORBACHEV, A.I., inzh.; VESELOV, B.N., inzh.

Choice of the optimal parameters for gas part of large steam gas units. Izv. vys. ucheb. zav.; energ. 7 no.11:39-46 N '64
(MIRA 18:1)

1. Saratovskiy politekhnicheskiy institut. Predstavlena kafedroy teploenergetiki.

KIROVA, Kira Aleksandrovna, dots., kand. tekhn. nauk; SLYUSARENKO,
Tamara Platonovna, assistant; VESELOV, I.Ya., prof., re-
tsenzent; PETRZHIKOVSKAYA, L.M., dots., retsenzent;
BAKUSHINSKAYA, O.A., kand. biol. nauk, spets. red.; HELIKOVA,
L.S., red.; SATAROVA, A.M.; tekhn. red.

[Laboratory manual on microbiology in the food industry] Ruko-
vodstvo k prakticheskim zaniatiiam po mikrobiologii pishchevykh
proizvodstv. Moskva, Pishchepromizdat, 1961. 321 p.

(MIRA 15:3)

(FOOD--MICROBIOLOGY)

VESELOV, A.Ya.

Results of the work on Ploskirev's bactoagar with the addition
of syntomycin in studying gastrointestinal infections. Zdrav.
Kazakh. 22 no.6:65 '62.
(MIRA 15:11)

1. Iz laboratori Infektsionnoy bol'nitsy g. Leninogorsk'a
(glavnnyy vrach - V.G.Ginsburg).

(BACTERIOLOGY—CULTURES AND CULTURE MEDIA)
(ACETAMIDE) (GASTROENTEROLOGY)

BABUSENKO, A.M.; VESELOV, A.Ya.

Antimicrobic characteristics of the essential oils of some plants.
Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 5:26-31 '61.
(MIRA 15:4)
(Essences and essential oils) (Materia medica, Vegetable)

LAPIN, Yu.A.; ZHIROVA, L.G.; VESELOV, A.Ya.

Treatment of acute and suppurative inflammations of the
female pelvis minor with tetracycline hydrochloride.
Antibiotiki 7 no.4:362-366 Ap '62. (MIRA 15:3)

1. Mediko-sanitarnaya chast' Leninogorskvinetsstroya Vostochno-
Kazakhstanskoy oblasti (glavnnyy vrach A.Ya. Stremousova).
(PELVIS--DISEASES)
(TETRACYCLINE)

SOV/137-58-10-21282

Transaltion from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 120 (USSR)

AUTHORS: Gurevich, I. L., Dybovskiy, R. K., Kalinin, A. T., Veselov, B. P.

TITLE: Liquid Carburizer for Gas Carburization of Steel (Zhidkiy karb-yurizator dlya gazovoy tsementatsii stali)

PERIODICAL: Materialy Mezhvuz. nauchn. soveshchaniya po vopr. novoy tekhn. v nefte. prom-sti, 1958, Vol 3, pp 206-223

ABSTRACT: An investigation was conducted on the gas carburization (GC) of specimens of Nr-20 and 18KhGT-grades of steel in a laboratory furnace and in a small type Ts-25 shaft kiln using various liquid carburizers (C); lamp kerosene was used as the standard C. It is indicated that at GC temperatures of 925 - 930°C, a duration of 1.5 hours or 5 hours and at the optimum feeding rate for each C, the employment of alkane C ensures advantages over the use of aromatic C in the total depth of the layer, the magnitudes of the transitional and eutectoid zones, and the degree of carburization of a control wire 1.5 mm in diameter. The best results were obtained using synthol with a boiling-point range of 48 - 246°. When sooty products of decomposition of C are present in the muffle, GC showed that alkane C,

Card 1/2

SOV/137-58-10-21282

Liquid Carburizer for Gas Carburization of Steel

especially synthols with 48 - 246° and 69 - 302° boiling-point ranges, decrease the carburizing capacity less than the aromatic C. The greatest evolution of coke-soot was produced by the aromatic C. Comparative data on GC of machine parts of the DT-54-type tractor of 18KhGT-grade steel in continuous furnaces of the heat-treatment shop of the KhtZ [Khar'kovskiy Traktorny Zavod (Khar'kov Tractor Plant)] showed that compared to the employment of kerosene the increase in the productivity for 100 - 231°, 101 - 305°, and 195 - 312° fractions are by 24, 51, and 40%, respectively, while the decreases in the amount of the coke-soot deposition are by 50, 35, and 41%, respectively. When synthols are used, a loose soot is produced which is easily washed off with the oil in quenching tanks, corrosion produced by the presence of S is prevented, and the consumption of C per operation is decreased. Technical specifications (TU 574 - 55) are developed for two types of C: synthol 100 - 300° for continuous furnaces and synthol 100 - 230° for shaft kilns.

1. Steel--Carbonization 2. Kerosene--Performance

L. F.

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7

VESELOV, A. Z.

The earth's natural resources. Moskva, 1948. 120 p. (Ita: Besedy o knigakh) (49-52312)

27164.N3M7

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859610013-7"

VASIL'YEV, Elpidifor Alekseyevich, prof., VASIL'YEV, Ye.N., retsenzent;
DAVITASHVILI, L.Sh., retsenzent; INAMNIKOV, S., retsenzent; MARKOV,
G.S., retsenzent; PRAVDIN, F.N., retsenzent; RYBAKOVA, N.T., red.;
TSIRUL'NITSKIY, N.P., tekhn. red.

[Darwinism; a manual for pedagogical institutes] Darwinism; uchebnik
dlia pedagogicheskikh institutov. Izd.2., ispr. i dop. Moskva, Gos.
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 495 p.
(Evolution) (MIRA 11:7)

VISELOV, F.N.

15 Years experience with D. I. Zimont's orthoscope. Vest: otorino-
lar., Moskva 15 no. 1:78 Jan-Feb 1953. (CIML 24:1)

1. Of the First Amalgamated Hospital, Armavir.

VESELOV, G.

Apparatus for seed disinfection. Zashch. rast. ot vred. i
bol. 8 no. 3:29-30 Mr '63. (MIRA 17:1)

1. Zaveduyushchiy tsentral'nym tokom sovkhoza "Timiryazevskiy",
Severo-Kazakhstanskaya obl.

30294
S/109/61/006/011/009/021
D201/D304

9,1300

AUTHORS:

Lyubimov, L.A., Veselov, G.I., and Hey, N.A.

TITLE:

A dielectric waveguide with elliptic cross-section

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 11, 1961
1871 - 1893

TEXT: Expressions for the field components outside and inside of the guide are written as infinite series of Mathieu functions. Boundary conditions are formulated and converted into functional identities, so that several equations for the expansion coefficients are obtained. These are simplified by taking only two functions in each sum, the higher harmonics being very small. The approximate dispersion equation is deduced from the former and simplified by neglecting terms of the second order (whose value is about 1 % of the principal terms) and so transformed as to be suitable for numerical calculation. Since no tables or graphs were available for radial Mathieu functions contained in the equations, their values were specially determined. Graphs of dispersion characteristics for the electric field polarized along the major axis

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D201/D304

A dielectric waveguide with ...

(odd wave) and perpendicularly to it (even wave) are given for $c/a = 0.648$ (c = focal distance, a = major axis of the cross-section). Critical conditions for higher mode waves are also given without deductions, and some numerical values of coefficients are mentioned. There are 3 figures, and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: L.J. Chu, Electromagnetic waves in elliptic hollow pipes of metal. J. Appl. Phys., 1938, 9, 9, 583; L.J. Chu, J.A. Stratton, Elliptic and spheroidal wave functions, J. Math. and Phys., 1941, 20, 3, 259; J.A. Stratton, P.M. Morse, L.J. Chu, R.A. Hutter, Elliptic, Cylinder and spheroidal wave functions, N.Y. 1942.

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XB

AUTHOR: Veselov, G. I.; Lyubimov, L. A.

TITLE: Theory of two-layer dielectric waveguide in a cylindrical screen

SOURCE: Radiotekhnika i elektronika, v. 8, no. 9, 1963, 1530-1541

TOPIC TAGS: waveguide, dielectric waveguide, two-layer dielectric waveguide

ABSTRACT: As the dispersion equation of a homogeneous system has a transcendental form and as only a few particular cases were solved and published, the authors try to find a general solution of the two-layer dielectric-waveguide problem. By using a cylindrical coordinate system and Neumann's functions, this dispersion equation is set up

$$p^2(\chi - 1)^2 = [eF_n(x) - \chi Q_{En}(y)] [\mu F_n(x) - \chi Q_{Mn}(y)] \quad (11)$$

Consideration of the two limit cases (a) infinite screen and (b) screen in contact with the inner layer gives two dispersion equations (a) for an open waveguide and (b) for a metallic homogeneous-fill waveguide respectively. A grapho-analytical

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solution of the dispersion equations for a number of numerical values of the dielectric constant resulted in obtaining dispersion characteristics of the "hybrid" (HE)₁₁ mode. Peculiarities and ranges of applicability of the hybrid-mode dispersion curves (HE)₁₁ and (EH)₁₁ in the critical region are considered; the critical region encompasses imaginary and low real values of the normalized wave constant. "The authors are deeply grateful to B. Z. Katsenelenbaum for his careful perusal of the manuscript and his valuable comments." Orig. art. has: 6 figures and 30 formulas.

ASSOCIATION: none

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